

P20363.P01

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

P20363

Total Pages

Inventor(s) or Application Identifier
Seung-won CHOITitle: SIGNAL PROCESSING METHOD FOR USE IN AN
ARRAY ANTENNA SYSTEM IN CDMA MOBILE
TELECOMMUNICATIONS NETWORK AND RECORDING
MEDIUM THEREFOR

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

APPLICATION ELEMENTS

ACCOMPANYING APPLICATION PARTS

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
 - a. ☐ Small Entity Statement(s)
3. ☒ Specification [Total Pages 30]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 USC 113) [Total Sheets 4]
5. ☒ Oath or Declaration [Total Pages 3]
 - a. ☐ Newly executed (original or copy) ☒ Unexecuted
 - b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 20 completed)
[Note Box 6 below]
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☐ Incorporation By Reference (useable if Box 5b is checked)
The entire disclosure of the prior application, from which a
copy of the oath or declaration is supplied under Box 5b, is
considered as being part of the disclosure of the accompanying
application and is hereby incorporated by reference therein.
7. ☐ Application Data Sheet. See 37 CFR 1.76
8. ☐ CD-Rom or CD-R in duplicate, large table or Computer
Program (Appendix)

9. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies
10. ☐ Assignment Papers (cover sheet & document(s))
11. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
12. ☐ English Translation Document (if applicable)
13. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
14. ☐ Preliminary Amendment
15. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
16. ☒ Figure of Drawing to be published 1
17. ☒ Foreign priority claimed
 - a. ☒ Claim of Priority
 - b. ☒ Certified Copy of Priority Document(s)
18. ☒ Assignee: Hantel Co., Ltd. and SAS Technologies Co., Ltd.
19. ☒ Other: Cover Letter under 37 C.F.R. 1.53(b) and (f)

20. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior Application No. _____ / _____, filed _____.
 Prior application information: Examiner: _____ Group Art Unit: _____

 21. ☐ Amend the specification by inserting before the first line the sentence:
 This application is a ___ continuation-in-part, ___ continuation, ___ divisional, of Application No. _____ / _____, filed _____.
Address all future correspondence to **Customer No. 7055** at the present address of:
GREENBLUM & BERNSTEIN, P.L.C.
 1941 Roland Clarke Place
 Reston, VA 20191
 (703) 716-1191

12/12/00
 Date

Leslie J. Depner Reg. No. 33,329
 Signature

Bruce H. Bernstein, Reg No. 29,027
 Typed or Printed Name

FEE TRANSMITTAL		Complete if Known	
		Application Number	Not Yet Assigned
		Filing Date	Concurrently Herewith
		First Named Inventor	S.-W. CHOI
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
TOTAL AMOUNT OF PAYMENT		(\$) 355.00	
Attorney Docket Number		P20363	

METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)																																																																																																																																																																																																																																																																																																						
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number <u>19-0089</u></p> <p>Deposit Account Name <u>GREENBLUM & BERNSTEIN, P.L.C.</u></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1.136(a)(3))</p> <p><input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b)</p> <p><input type="checkbox"/> Applicant Claims Small Entity Status See 37 CFR 1.27.</p> <p><input checked="" type="checkbox"/> Payment Enclosed:</p> <p><input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p> <p style="text-align: center;">FEE CALCULATION (fees effective 12/29/99)</p> <p>1. FILING FEE</p> <table style="width:100%;"> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> <tr> <td>101</td> <td>710</td> <td>201</td> <td>355</td> <td>Utility filing fee</td> <td>355</td> </tr> <tr> <td>106</td> <td>320</td> <td>206</td> <td>160</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>107</td> <td>490</td> <td>207</td> <td>245</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108</td> <td>710</td> <td>208</td> <td>355</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114</td> <td>150</td> <td>214</td> <td>75</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="5">SUBTOTAL (1)</td> <td>(\$) 355</td> </tr> </table> <p>2. CLAIMS</p> <table style="width:100%;"> <tr> <th>Total Claims</th> <th>10</th> <th>-20=</th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> <tr> <td>Independent</td> <td>3</td> <td>-3=</td> <td>0</td> <td>09</td> <td>0</td> </tr> <tr> <td>Multiple Dependent Claims</td> <td></td> <td></td> <td>0</td> <td>40</td> <td>0</td> </tr> </table> <table style="width:100%;"> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> <tr> <td>103</td> <td>18</td> <td>203</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>102</td> <td>80</td> <td>202</td> <td>40</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>104</td> <td>270</td> <td>204</td> <td>135</td> <td>Multiple dependent claim</td> <td></td> </tr> <tr> <td>109</td> <td>80</td> <td>209</td> <td>40</td> <td>Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>110</td> <td>18</td> <td>210</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="5">SUBTOTAL (2)</td> <td>(\$) 0.00</td> </tr> </table>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	101	710	201	355	Utility filing fee	355	106	320	206	160	Design filing fee		107	490	207	245	Plant filing fee		108	710	208	355	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1)					(\$) 355	Total Claims	10	-20=	Extra	Fee from below	Fee Paid	Independent	3	-3=	0	09	0	Multiple Dependent Claims			0	40	0	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	80	202	40	Independent claims in excess of 3		104	270	204	135	Multiple dependent claim		109	80	209	40	Reissue independent claims over original patent		110	18	210	9	Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$) 0.00	<p>3. 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SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name		Bruce H. Bernstein		Reg. Number 29,027	
Signature <i>Leslie J. Bernstein Reg. No. 33329</i>		Date 12/12/00		Deposit Account User ID	

P20363.P03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :S.-W. CHOI

Serial No : Not Yet Assigned

Filed : Concurrently Herewith

For :SIGNAL PROCESSING METHOD FOR USE IN AN ARRAY ANTENNA
SYSTEM IN CDMA MOBILE TELECOMMUNICATIONS NETWORK AND
RECORDING MEDIUM THEREFOR



COVER LETTER ACCOMPANYING U.S. PATENT APPLICATION
FILED UNDER 37 C.F.R. 1.53(b)and 1.53(f)

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Enclosed is a new patent application for filing in the U.S. Patent and Trademark Office under 37 C.F.R. 1.53(b)and 1.53(f) in which the Declaration and Power of Attorney attached thereto are in unexecuted form. An executed Declaration and Power of Attorney will be filed within the time period set forth in the Notice to File Missing Parts of Application, unless such time period has been extended by the filing of a petition accompanied by the extension fee under the provisions of 37 C.F.R. 1.136(a).

Related to this, a correspondence address is provided in the unexecuted Declaration and Power of Attorney, and is as follows:


GREENBLUM & BERNSTEIN, P.L.C.
1941 Roland Clarke Place
Reston, Va. 20191

The above-identified application includes:

- 30 pages of specification (including Abstract);
- 10 total claims; with 3 independent;
- 4 sheets of drawings with 4 figures;
- an unexecuted Declaration and Power of Attorney.

If there are any questions, please contact the undersigned at the below-listed telephone number.

Respectfully submitted,
S.-W. CHOI


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December 12, 2000
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